

## MODIS IOT Weekly Report

Mission Operations Days: 2001/076 to 2001/082

March 16, 2001 20:00:00 GMT to March 23, 2001 20:00:00 GMT

### Terra Spacecraft and MODIS Instrument Status:

Terra (AM-1) is in Normal Mode

MODIS is in B-side Science Mode

Blackbody	A Off; B On	Nominal
Calibration Electronics	A Off; B On	Nominal
Control Processor	A Off; B On	Nominal
Door: Nadir	Unlatched, open	Nominal
Space View	Unlatched, open	Nominal
Solar Diffuser	Unlatched, closed	Nominal
FDDI Formatter	A Off; B On	Nominal
FDDI Port	A On; B Off	Nominal
FIFO Memory	1 & 2 Off; 3 & 4 On	Nominal
Format Processor	A Off; B On	Nominal
Power Supply: 1	Off	Nominal
2	On	Nominal
PV FPAs: VIS	A Off; B On	Nominal
NIR	A Off; B On	Nominal
SMIR	A Off; B On	Nominal
LWIR	A Off; B On	Nominal
PC FPA: LWIR	A Off; B On	Nominal
Radiative Cooler:		
Outgas Heaters	All Off	Nominal
LWIR FPA Heater	On	Nominal
SMIR FPA Heater	Off	Nominal
Scan Assembly	A Off; B On	Nominal
SDSM	Off	Nominal
SRCA	Off	Nominal
Survival Heaters: PS1	Enabled	Nominal
PS2	Enabled	Nominal
Timing Generator	A Off; B On	Nominal
Flight Software	Rev BD + 2 patches	Nominal
Inhibit Ids Set	None	Nominal

TMONs enabled

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Nominal

This Week's Completed MODIS Activities:

Saturday, March 17, 2001

None

Sunday, March 18, 2001

None

Monday, March 19, 2001

None

Tuesday, March 20, 2001

None

Wednesday, March 21, 2001

080/11:29:25-11:40:53

ATC

OA15: SD/SDSM Open

080/13:08:17-13:19:45

ATC

OA16: SD/SDSM Screened

Thursday, March 22, 2001

None

Friday, March 23, 2001

None

This Week's Scheduled MODIS Activities Not Completed:

None

Upcoming MODIS Events:

Saturday, March 24, 2001

None

Sunday, March 25, 2001

None

Monday, March 26, 2001

None

Tuesday, March 27, 2001

None

Wednesday, March 28, 2001

None

Thursday, March 29, 2001

None

Friday, March 30, 2001

None

#### Maneuvers:

There will be no MODIS roll maneuver in April because the roll angle would have been too great.

Next roll maneuver will be scheduled in May.

#### MODIS Anomalies:

There appears to be a problem processing the science data collected during the SRCA activities on Friday, March 2<sup>nd</sup>, 2001 (day 061). Specifically, this may be related to the change in sector sizes for the Solar Diffuser and SRCA. If this is the cause, it will affect data from 061/14:06:30 to 061/18:21:56 GMT. This problem is not yet well understood.

#### General Instrument Comments:

MODIS is in Science Mode on the B-side with the SVD and NAD open, operating with the Formatter Resolution Flight Software Patches (FRFSP).

#### MODIS Telemetry Trends:

Temperature trends are correlating with the solar beta angle.

#### Non-MODIS Significant Events:

None

#### Limited Life Item Status:

SRCA 10W Lamp #1: 182.5 of 500 hours  
SRCA 10W Lamp #2: 141.1 of 500 hours  
SRCA 10W Lamp #3: 150.3 of 500 hours  
SRCA 10W Lamp #4: 61.5 of 500 hours

SRCA 1W Lamp #1: 557.2 of 4000 hours  
SRCA 1W Lamp #2: 276.3 of 4000 hours

Solar Diffuser Door: 1567 of 3022 Movements  
Nadir Aperture Door: 532 of 1316 Movements  
Space View Door: 437 of 1316 Movements